Catalogue

of the

Western University

of

Pennsylvania.

1877-'78.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF THE

WESTERN UNIVERSITY

OF

PENNSYLVANIA,

FOR THE YEAR ENDING JUNE 27, 1878.

CORNER OF ROSS AND DIAMOND STREETS, PITTSBURGH.

Philadelphia:

McLAUGHLIN BROTHERS' BOOK AND JOB PRINTING ESTABLISHMENT:

112 AND 114 SOUTH THIRD STREET.

1878.

TRUSTEES.

TERM EXPIRES 1879.

REV. S. F. SCOVEL,
JOHN HARPER,
ISAAC JONES,
ALEX. NIMICK,
JOSIAH KING,
C. G. HUSSEY, M. D.,
HON. R. B. CARNAHAN,
JAS. R. SPEER, M. D.,
JAS. PARK, JR.,
J. P. HANNA.

TERM EXPIRES 1880.

HON. J. K. MOORHEAD,
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R. B. MOWRY, M. D.,
ROBERT ROBB, ESQ.,
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HON. JOHN C. NEWMYER,
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RICHARD S. WARING,
CHAS. J. CLARKE.

TERM EXPIRES 1881.

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WM. BAKEWELL, ESQ.,
R. E. SELLERS,
WM. J. SAWYER,
HON. F. H. COLLIER,
REV. A. M. MILLIGAN,
JAS. KING, M. D.,
WM. FREW,
HENRY LLOYD.

EX-OFFICIO MEMBERS.

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HON. ROBERT LIDDELL, *Mayor of Pittsburgh.*
HON. THOMAS MEGRAW, *Mayor of Allegheny.*

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Milton B. Goff, *Secretary and Assistant Treasurer.*

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FACULTY.

ARRANGED, WITH THE EXCEPTION OF THE CHANCELLOR, IN THE ORDER OF ACCESSION.

GEORGE WOODS, LL. D., ... Sewickley.
Chancellor, and Professor of Mental and Moral Science.

JOS. F. GRIGGS, A. M., ... 139 Crawford Street.
Professor of the Greek Language and Literature.

ALPHONSE M. DANSE, ... 4 Eighth Street.
Teacher of French.

MILTON B. GOFF, A. M., ... Clark and Logan Streets, Sewickley.
Professor of Mathematics.

REV. EDWARD P. CRANE, A. M., ... Breckenridge Avenue, 13th Ward.
Professor of Rhetoric and Logic.

SAMUEL P. LANGLEY, ... Observatory, Allegheny.
Director of Observatory, and Professor of Astronomy and Physics.

LEVI LUDDEN, A. M., ... Wilkinsburg.
Principal of Preparatory Department, and Instructor in Latin.

I. N. GORNER, ... 163 Wylie Street.
Instructor in Commercial Branches.

PAUL F. ROHRBACHER, ... Sewickley.
Instructor in German and in General History.

THEODORE M. BARBER, A. M., ... Ellsworth Avenue.
Professor of the Latin Language and Literature.

CHARLES R. COFFIN, A. M., ... Edgewood Station, P. R. R.
Instructor in Greek.

P. B. DE SCHWEINITZ, M. E., ... Breckenridge Avenue.
Instructor in Mechanical Engineering, Physics and Astronomy.

FRANCIS C. PHILLIPS, ... 62 Grant Street.
Professor of Chemistry, Mineralogy and Geology.

OSCAR M. TUCKER, ... Wilkinsburg.
Instructor in English Branches.

LIEUT. HENRY B. OSGOOD, THIRD ARTILLERY, U. S. ARMY, . . Sewickley.
Professor of Military Science and of Civil Engineering.

*GEN. JOHN FRASER, LL. D., ... 38 Esplanade Street, Allegheny.
Instructor in Political Economy and in History.

FRANK W. VERY, B. S., ... Observatory, Allegheny.
Assistant in the Observatory.

JOSEPH F. GRIGGS, A. M.,
Curator of the Watson Library and of the Reading-Room.

THEODORE M. BARBER, A. M.,
Secretary of the College Faculty.

CHARLES R. COFFIN, A. M.,
Secretary of the Joint Faculty.

P. B. DE SCHWEINITZ, M. E.,
Registrar.

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*Died June 5th, 1878.

STUDENTS.

Collegiate Department.

ACADEMICAL.

SENIOR CLASS.

ERRETT, WILLIAM RUSSELL	Mansfield.
LARGE, ALVIN LEANDER	Freedom.
MILLER, JONATHAN WALKER	Pittsburgh.
NEELD, FRANK LAWRENCE	West Liberty.
SANDS, ROBERT MCMATH	Pittsburgh.
THAW, BENJAMIN	Pittsburgh.

JUNIOR CLASS.

DODDS, ARCHIBALD JOHNSON	Lucesco.
DUFF, ALFRED WILLIAM	Pittsburgh.
MOSER, ALBERT HENRY	Allegheny.

SOPHOMORE CLASS.

ACKLEY, SAMUEL MAHLON	Allegheny.
ALLISON, JOHN M. SNOWDEN	Sewickley.
BAUSMAN, JOHN FREDERICK	Pittsburgh.
BOYD, WILLIAM MCFARLAND	Mt. Lebanon.
LARGE, CHARLES	Freedom.
THAW, ALEXANDER BLAIR	Pittsburgh.

FRESHMAN CLASS.

GRAY, HENRY HANNA	Allegheny.
PAULSON, CHARLES HENRY, JR.	Pittsburgh.
WARING, JAMES HENRY NELSON	Washington, D. C.
WILSON, ROBERT DAVIS	Allegheny.

SCIENTIFIC.

FIRST CLASS.

Andrews, Sidney Francis	Allegheny.
Boyle, Thomas Gibson	Allegheny.
Gault, Silas	Primrose.
Irwin, Frederic	Sewickley.
McKee, Frederick William	Pittsburgh.
Morrow, Frank Dallas	Pittsburgh.
Rafferty, Bernard Frank	Pittsburgh.
Scovel, Minor	Pittsburgh.
Smith, Edgar Enoch	Pittsburgh.

SECOND CLASS.

Cooper, William	Allegheny.
Davis, Harry Fulton	Pittsburgh.
Godfrey, Edward Clark	Pittsburgh.
Larimer, Thomas Wilson	Library.
Morrison, John McClinton	Logan's Ferry.
Murray, Seward Horner	Sewickley.
Phillips, Robert Alexander	Neville Island.

THIRD CLASS.

Davis, William Porter	Punxsutawney.
Hetzel, James	Pittsburgh.
Holden, Frederick Erastus	Allegheny.
Holdship, C. Frederick	Allegheny.
Johnson, Edward Sullivan	Baldwin.
Johnston, John Bates	Pittsburgh.
Kirkpatrick, Robert Armstrong	Braddocks.
Smith, Frederick William	Sewickley.
Smith, William Rammage	Pittsburgh.
Thompson, Edward	Allegheny.
Wood, James	Pittsburgh.
Wright, James Harrison	Allegheny.

ENGINEERING.

FIRST CLASS.

JORDAO, FRANCISCO RODRIGUES . . . . . Limeira, S. Paulo, Brazil.
SICKMAN, ALBERT FRANKLIN . . . . . Snowden.

SECOND CLASS.

GILLFILLAN, ALEXANDER, JR. . . . . Upper St. Clair.
KELLER, CHARLES . . . . . Wilkinsburg.
SMYTH, RICHARD FRANK . . . . . Mansfield.
SWAN, ROBERT . . . . . Allegheny.

THIRD CLASS.

CAMP, JAMES MCINTYRE . . . . . Allegheny.
MCBRIDE, GEORGE LEWIS . . . . . Allegheny.

FOURTH CLASS.

DANSE, LEOPOLD OLIVER . . . . . Pittsburgh.
TORRANCE, FRANK JOHN . . . . . Allegheny.

UNCLASSIFIED.

ALLEN, WILLIAM HERVEY . . . . . Pittsburgh.
BRIGGS, ELMER ELLSWORTH . . . . . Pittsburgh.
BROWN, CHARLES EDWARD . . . . . Allegheny.
BROWN, CHARLES SUMNER . . . . . Allegheny.
BROWNE, JOSEPH MOODY . . . . . Pittsburgh.
BUFFUM, WALTER BETZ . . . . . Pittsburgh.
CHENEY, MILLARD ELMER . . . . . Freedom.
DAVIDSON, SAMUEL SMILEY . . . . . Wampum.

DIPPOLD, GEORGE SMITH . . . . . Baden.
FARLEY, GEORGE MCGREW . . . . . New Brighton.
FARRAR, GEORGE WASHINGTON . . . . . Allegheny.
GIBSON, JOHN BANNISTER . . . . . Allegheny.
GOE, HARRY BATEMAN . . . . . Pittsburgh.
GRIFFITH, H. ALLEN . . . . . Pittsburgh.
GROETZINGER, ADOLPH CHRISTOPH . . . . . Allegheny.
JOHNS, BENJAMIN SOLOMON . . . . . Pittsburgh.
MCCURDY, IRWIN POUNDS . . . . . Indiana.
MERRIMAN, ALEXANDER ROBB . . . . . Allegheny.
NIMICK, WILLIAM HOWARD . . . . . Pittsburgh.
WRIGHT, BENJAMIN BAKEWELL . . . . . Allegheny.
YOUNG, JOHN WILSON . . . . . Pittsburgh.

LABORATORY.

Those whose names are preceded by a star were Special Students, taking Laboratory practice alone; the others were Collegiate Students, who pursued Analytical Chemistry beyond the requirements of their course.

ALLEN, WILLIAM HERVEY . . . . . Pittsburgh.
*CAUGHEY, WILLIAM COOK . . . . . Allegheny.
COOPER, WILLIAM . . . . . Allegheny.
DAVIDSON, SAMUEL SMILEY . . . . . Wampum.
GIBSON, JOHN BANNISTER . . . . . Allegheny.
GILLFILLAN, ALEXANDER, JR. . . . . Upper St. Clair.
*HARTUPEE, WILLIAM DILWORTH . . . . . Pittsburgh.
*HEUSER, ALBERT ERNEST . . . . . Pittsburgh.
IRWIN, FREDERIC . . . . . Sewickley.
JORDAO, FRANCISCO RODRIGUES . . . . . Limeira, S. Paulo, Brazil.
KELLER, CHARLES . . . . . Wilkinsburg.
MCKEE, FREDERICK WILLIAM . . . . . Pittsburgh.
MERRIMAN, ALEXANDER ROBB . . . . . Allegheny.
*MICHAEL, ALBERT J. . . . . Allegheny.
NIMICK, WILLIAM HOWARD . . . . . Pittsburgh.
*PENNEY, SAMUEL GREER . . . . . Pittsburgh.
*RABE, THOMAS H. . . . . Uniontown.
*ROHRBACHER, ALTA COOK . . . . . Sewickley.
SMYTH, RICHARD FRANK . . . . . Mansfield.
SWAN, ROBERT . . . . . Allegheny.
THAW, BENJAMIN . . . . . Pittsburgh.
WRIGHT, BENJAMIN BAKEWELL . . . . . Allegheny.

Preparatory Department.

CLASSICAL.

FIRST CLASS.

Bole, William Andrew	Bellevue.
Fish, Frank	Allegheny.
Gordon, William Gardner	Swissvale.
Hoffstot, Frank Norton	Pittsburgh.
Janney, Charles Hamilton	Alexandria, Va.
Jenkins, Friend William	Allegheny.
Kirker, William Braden	Bellevue.
Kreps, Jacob Fordney	Allegheny.
Leitch, John	Allegheny.
McBrier, Harvey Lewis	Erie, Pa.
McGrew, Robert Leggate	Allegheny.
Thomas, Thomas Pierce	Idlewood.
West, Albert Marshall	Allegheny.
Woods, Edward Augustus	Sewickley.
Wright, Elisha Pierson Swift	West Bellevue.

SECOND CLASS.

Bakewell, Thomas, Jr.	Allegheny.
Couch, John Andrew	Edgeworth.
Donehoo, George Patterson	Pittsburgh.
Hill, James Barnet	Bridgeville.
Johnston, Andrew Burt	Allegheny.
Kilpatrick, William	Allegheny.
Marshall, William Thomas	Allegheny.
McAfee, James Joseph	Pittsburgh.
McGrew, Samuel	Allegheny.
McKelvy, William Henry Seward	Sewickley.
Murray, George Piersol	Bridgeville.
Phillips, Henry Asher	Allegheny.
Richardson, Frank Elmer	Allegheny.
Scheidemantel, George	Allegheny.
Stengel, Walter	Pittsburgh.

THIRD CLASS.

Boggs, Thomas Crans	Pittsburgh.
Conn, Charles Campbell	Sewickley.

Crawford, James John	North Star.
Fehring, Henry	Allegheny.
Fetterman, Charles Douglas	Pittsburgh.
Heyl, Lawrence Morton	Lawrenceville.
Jamison, William Arbuckle	Allegheny.
Leonard, John Charles	Allegheny.
Martin, Frank Joseph	Allegheny.
McCarrell, James Rankin	Allegheny.
Morrow, George Alfred	Allegheny.
Murtland, John Arthur	Homewood.
Myers, Louis Edward	Allegheny.
Patterson, John	Allegheny.
Patterson, William Forsyth	Allegheny.
Petrie, George Whitefield	Ingram Station.
Robb, John Scott	Emsworth.
Robingsen, Charles Carter	Beaver.
Robinson, Andrew Leonard	Allegheny.
Rowe, Emil	Allegheny.
Schultz, Charles John, Jr.	Pittsburgh.
Smith, Clarence Ednor	Allegheny.
Totten, Robert Duncan	Allegheny.
Trauerman, Moses	Allegheny.
Wiederhold, Charles Seibert	Allegheny.
Walker, Frank	Pittsburgh.

ENGLISH.

Those whose names are preceded by a star took the Latin of the Classical Course, but not the Greek.

FIRST CLASS.

Albree, Chester Bidwell	Allegheny.
Albree, Joseph, Jr.	Allegheny.
Allen, Lewis Leslie	Bates Run.
Anderson, Charles Fuller	Glendale.
Anderson, George Bell	Braddock's.
Anderson, William Brown	Allegheny.
Bailey, William McClellan	McKeesport.
Barr, Paul Denlevy	Oakland.
Beymer, Albert Sydney	Oakland.
Beymer, Charles Fracker	Oakland.
Blakely, Archibald Mecklin	Allegheny.
Blyth, Ambrose David	Moingona, Iowa.
* Carpenter, Edwin Stanton	Sewickley.
Caughey, John Wilson	Allegheny.
Cleland, Robert James	Allegheny.
Cochran, William Robinson	Quaker Valley.

COYODE, HERMAN LAWSON . . . . . Sharpsburg.
*DAVIS, JOHN JENKINS . . . . . Pittsburgh.
DUNCAN, EDWARD DE BARENNE . . . . . Haysville.
GILMORE, JAMES REED . . . . . Sewickley.
HAMILTON, JAMES JACKSON . . . . . Allegheny.
*HUTCHISON, STANTON . . . . . Pittsburgh.
*LOVE, ISAAC KING . . . . . Edgewood.
MCCARTNEY, HARRY GRISWOLD . . . . . Tarentum.
MCCORMICK, JOHN SCHOENBERGER . . . . . Allegheny.
*MCDONALD, FRANK RIDDLE WILKINS . . . . . Freedom.
MCINTOSH, JOHN SHILMAN . . . . . Allegheny.
*MCKNIGHT, ROBERT, JR. . . . . Allegheny.
NEELD, THOMAS HUNT . . . . . West Liberty.
NELLIS, WALTER . . . . . Allegheny.
*NEWMYER, CHARLES HILL . . . . . Swissvale.
*PARK, CHARLES CALDWELL . . . . . Allegheny.
*PRESCOTT, JAMES WILLIAM . . . . . Allegheny.
ROBINSON, ALEXANDER COCHRAN . . . . . Quaker Valley.
SLAGLE, JACOB . . . . . Allegheny.
STEINER, CLEMENTS . . . . . Kenton, Ohio.
SWEITZER, HARRY STEVENSON . . . . . Pittsburgh.
*SWIFT, GEORGE DAMON . . . . . Allegheny.
TAYLOR, DAWSIE . . . . . Pittsburgh.
TAYLOR, JOHN GRANT . . . . . Pittsburgh.
THOMPSON, HARRY . . . . . Allegheny.
TODD, JAMES . . . . . Wilkinsburg.
VOEGTLY, WILLIAM NICHOLAS . . . . . Allegheny.
WERNKE, CHRISTIAN HENRY . . . . . Pittsburgh.
*WILLOCK, WILLIAM WALTER . . . . . Allegheny.
WOOD, ELMER ELLSWORTH . . . . . New Orleans, La.

SECOND CLASS.

AHLERS, WILLIAM CONRAD . . . . . Pittsburgh.
ANDREWS, ROBERT JAMES . . . . . Allegheny.
BLIND, ALBERT . . . . . Pittsburgh.
BOYD, JOHN SAMPSON . . . . . Allegheny.
CASSIDY, WILLIAM . . . . . Pittsburgh.
DALLMEYER, LOUIS . . . . . Haysville.
DUNN, EMANUEL WASHINGTON . . . . . Pittsburgh.
GORMLY, WILLIAM MYERS, JR. . . . . Pittsburgh.
GRACE, EDWARD SHIELDS . . . . . Allegheny.
HAVEKOTTE, OSCAR . . . . . Pittsburgh.
*HENRY, WILLIAM DAVID . . . . . Allegheny.
HOUSE, EDWARD . . . . . Pittsburgh.
JOPE, GEORGE WASHINGTON . . . . . Pittsburgh.
LUEBBE, FRANK WILLIAM . . . . . Pittsburgh.
*MAPLE, WALTER HARVEY . . . . . Pittsburgh.
MAYERS, JOSEPH HECTOR . . . . . Pittsburgh.

Menges, Joseph Ellsworth	Port Perry.
Neeb, Alfred Rudolph	Allegheny.
Neeb, Frank Caspar	Allegheny.
Pennock, Isaac Mason	Allegheny.
Possiel, Frank Julius	Allegheny.
Price, Frank Edward	Allegheny.
Pulpress, Calvin	Allegheny.
Rees, Winfield,	Ebensburg.
Renziehauzen, Henry Herman	Pittsburgh.
Scott, Albert Redman	Sharpsburg.
Scott, William Collier	Sharpsburg.
Seeds, William James	Pittsburgh.
Steinhausser, Henry	Allegheny.
Voeghtly, Nicholas Abraham	Allegheny.
* Wertheimer, Louis	Allegheny.
Wilbert, Frank	Pittsburgh.
Wilson, John, Jr.	Pittsburgh.
* Wright, Harry Thomas	Allegheny.

THIRD CLASS.

Atwood, John Wilson	Leetsdale.
Devlin, Edward Joseph	Pittsburgh.
Eaton, John Henry	Beaver.
Evans, George Coulson	Allegheny.
Evans, John Henry	Pittsburgh.
Helm, Louis	Pittsburgh.
Henger, John	Pittsburgh.
Holdship, George Irwin	Allegheny.
Keating, Edward Hugh	Pittsburgh.
Keenan, James Frank	Pittsburgh.
King, Alexander, Jr.	Pittsburgh.
Knox, Charles	Pittsburgh.
Kuhlman, George, Jr.	Mt. Lebanon.
Little, Samuel Barr	Pittsburgh.
McKee, Thomas	Allegheny.
Nicholas, James Alexander	Pittsburgh.
Schmidt, Jacob William	Pittsburgh.
Scully, Edward Joseph	Pittsburgh.
Smith, Charles Ferdinand	Pittsburgh.
Stockdale, Willis	Allegheny.
Wentzel, Joseph	Pittsburgh.
Wilson, Ira Jay	Pittsburgh.
Young, John Wilson	Pittsburgh.

Summary.

COLLEGIATE DEPARTMENT.

ACADEMICAL.

Seniors,	6	
Juniors,	3	
Sophomores,	6	
Freshmen,	4	
		19

SCIENTIFIC.

First Class,	9	
Second Class,	7	
Third Class,	12	
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ENGINEERING.

First Class,	2	
Second Class,	4	
Third Class,	2	
Fourth Class,	2	
		10

UNCLASSIFIED,	21	
LABORATORY STUDENTS,	7	
		85

PREPARATORY DEPARTMENT.

CLASSICAL.

First Class,	15	
Second Class,	15	
Third Class,	26	
		56

ENGLISH.

First Class,	46	
Second Class,	34	
Third Class,	23	
	103	
		159

Total,	244

First Scholars.

Collegiate Department.

ACADEMICAL.

Senior Class.—William Russell Errett.
Junior Class.—Alfred William Duff.
Sophomore Class.—Alexander Blair Thaw.
Freshman Class.—Henry Hanna Gray.

SCIENTIFIC.

First Class.—Frederick Irwin.
Second Class.—John McClinton.
Third Class.—James Harrison Wright.

ENGINEERING.

First Class.—Albert Franklin Sickman.
Second Class.—Charles Keller.
Third Class.—James McIntyre Camp.
Fourth Class.—Leopold Oliver Danse.

Preparatory Department.

CLASSICAL.

First Class.—William Andrew Bole.
Second Class.—George Scheidemantel.
Third Class.—James Rankin McCarrell.

ENGLISH.

First Class.—Edwin Stanton Carpenter.
Second Class.—Frank Caspar Neeb.
Third Class.—Alexander King, Jr.

ACADEMICAL DEPARTMENT.

Faculty.

GEORGE WOODS, LL. D.,
Chancellor, and Professor of Mental and Moral Science.

JOSEPH F. GRIGGS, A. M.,
Professor of the Greek Language and Literature.

ALPHONSE M. DANSE,
Teacher of French.

MILTON B. GOFF, A. M.,
Professor of Mathematics.

REV. EDWARD P. CRANE, A. M.,
Professor of Rhetoric and Logic.

SAMUEL P. LANGLEY,
Director of Observatory, and Professor of Astronomy and Physics.

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Instructor in German and in General History.

THEODORE M. BARBER, A. M.,
Professor of the Latin Language and Literature.

P. B. DE SCHWEINITZ, M. E.,
Instructor in Mechanical Engineering, Physics and Astronomy.

FRANCIS C. PHILLIPS,
Professor of Chemistry, Mineralogy and Geology.

LIEUT. HENRY B. OSGOOD, THIRD ARTILLERY, U. S. ARMY,
Professor of Military Science and Tactics.

Course of Study.

FRESHMAN CLASS.

FIRST TERM.

Greek.—Homer, The Iliad. Written Translations.
Mathematics.—Robinson's University Algebra, beginning at Quadratics.
History.—Swinton's Outlines.

SECOND TERM.

Latin.—Livy (Chase and Stuart's Edition). Composition.
Mathematics.—Algebra, finished.
History.—Continued.

THIRD TERM.

Greek.—Homer, The Iliad. Grecian Antiquities.
Mathematics.—Olney's Geometry, begun.
History.—Finished.

FOURTH TERM.

Greek.—Herodotus. Composition.
Latin.—Livy. Written Translations.
Mathematics.—Geometry, finished.

SOPHOMORE CLASS.

FIRST TERM.

Greek.—Euripides, Alcestis. Written Translations.
Latin.—Horace, Odes and Epodes. Composition.
Mathematics.—Olney's Trigonometry, begun.

SECOND TERM.

Greek.—Demosthenes, Olynthiacs. Composition.
Latin.—Horace, Satires and Epistles. Roman Antiquities.
Mathematics.—Trigonometry, finished. Surveying (Robinson's).

THIRD TERM.

Greek.—Aeschylus, Prometheus. Ancient Geography.
Latin.—Cicero, De Senectute. Written Translations.
Mathematics.—Navigation. Olney's General Geometry, begun.

FOURTH TERM.

Latin.—Terence. Composition.
Mathematics.—General Geometry, finished.
Natural History.—Gray's Elements of Botany.

JUNIOR CLASS.

FIRST TERM.

Latin.—Tacitus (Champlin's Selections). Ancient Geography.
Mathematics.—Olney's Differential and Integral Calculus.
Philosophy.—Porter's Human Intellect.

SECOND TERM.

Greek.—Sophocles, Oedipus Tyrannus. Written Translations.
Philosophy.—Upham on the Will.
English Literature.—Shaw's Manual.

THIRD TERM.

Latin.—Juvenal. Written Translations.
Philosophy.—Bowen's Logic.
Physics.—Ganot's.

FOURTH TERM.

Greek.—Plato, Apology and Crito. Composition.
Rhetoric.—Hepburn's.
Physics.—Finished.

SENIOR CLASS.

FIRST TERM.

Philosophy.—Evidences of Christianity.
Chemistry.—Roscoe's (Latest English edition).
Astronomy.—Lockyer's.

SECOND TERM.

Philosophy.—International Law.
Chemistry.—Roscoe's, finished.
Natural History.—Tenney's Manual of Zoology.

THIRD TERM.

Philosophy.—Wayland's Moral Science.
Natural History.—Dana's Manual of Mineralogy. Dalton's Anatomy and Physiology.

FOURTH TERM.

Philosophy.—Political Economy. Constitution of the United States.
Natural History.—Dana's Text-book of Geology. (Third edition).

THE FOLLOWING WORKS ARE RECOMMENDED FOR REFERENCE:

Hadley's and Curtius' Greek Grammars; Goodwin's Moods and Tenses of the Greek Verb; Yonge's English-Greek Lexicon; Liddell and Scott's Lexicon; Andrews and Stoddard's and Madvig's Latin Grammars; White and Riddle's or Andrews' Latin Lexicon; Doderlein's Latin Synonyms; Smith's Dictionary of Antiquities; Anthon's or Smith's Classical Dictionary; Roget's Thesaurus; Marsh's Lectures on the English Language; Bautain's Art of Extempore Speaking; Kame's Elements of Criticism; Tyndall on Heat, Sound and Light; Bloxam's Chemistry, New Edition; Fowne's Chemistry, Edited by Bridges; Fresenius' Qualitative Analysis, New System, 1877, Johnson; Fresenius' Quantitative Analysis, Johnson.

SCIENTIFIC DEPARTMENT.

Faculty.

GEORGE WOODS, LL. D.,
Chancellor, and Professor of Mental and Moral Science.

ALPHONSE M. DANSE,
Teacher of French.

MILTON B. GOFF, A. M.,
Professor of Mathematics.

REV. EDWARD P. CRANE, A. M.,
Professor of Rhetoric and Logic.

SAMUEL P. LANGLEY,
Director of Observatory, and Professor of Astronomy and Physics.

PAUL F. ROHRBACHER.
Instructor in German and in General History.

P. B. DE SCHWEINITZ, M. E.,
Instructor in Mechanical Engineering, Physics and Astronomy.

FRANCIS C. PHILLIPS,
Professor of Chemistry, Mineralogy and Geology.

LIEUT. HENRY B. OSGOOD, THIRD ARTILLERY, U. S. ARMY,
Professor of Military Science and Tactics.

Course of Study.

FOURTH CLASS.

FIRST AND SECOND TERMS.

Mathematics.—University Algebra.
History.—Swinton's Outlines.
French.—Keetel's Collegiate Course. De Fivas' Reader.
Drawing.—Mechanical.

THIRD TERM.

Mathematics.—Geometry.
History.—Continued.
French.—Continued.
Drawing.—Mechanical.

FOURTH TERM.

Mathematics.—Geometry.
History.—Continued.
French.—Finished.
Drawing.—Topographical.

THIRD CLASS.

FIRST TERM.

Mathematics.—Trigonometry.
Descriptive Geometry.
German.—Woodbury's New Method.
Drawing.—Topographical.

SECOND TERM.

Mathematics.—Surveying.
Descriptive Geometry.
German.—Woodbury's Grammar and Whitney's Reader.
Natural Science.—Zoology.

THIRD TERM.

Mathematics.—Navigation and Analytical Geometry.
German.—Continued.
Natural Science.—Physics.
Drawing.—Application of Descriptive Geometry.

FOURTH TERM.

Mathematics.—Analytical Geometry.
German.—Continued.
Natural Science.—Physics.

SECOND CLASS.

FIRST AND SECOND TERMS.

Mathematics.—Differential and Integral Calculus.
German.—Whitney's Grammar; Schiller and Lessing.
Natural Science.—Chemistry.

THIRD TERM.

German.—Whitney's Grammar; Goethe.
Natural Science.—Mineralogy.
Laboratory Practice.
Philosophy.—Logic.

FOURTH TERM.

German.—Whitney's Grammar; Evans' History of German Literature.
Natural Science.—Geology.
Laboratory Practice.
Rhetoric.

FIRST CLASS.

FIRST TERM.

Natural Science.—Astronomy.
Philosophy.—Mental.
Evidences of Christianity.

SECOND TERM.

Natural Science.—Laboratory Practice.
Philosophy.—Mental.
International Law.
English Literature.

THIRD TERM.

Natural Science.—Anatomy and Physiology.
Philosophy.—Moral.
Military Science.

FOURTH TERM.

Natural Science.—Botany.
Philosophy.—Political Economy.
Constitution of the United States.

Course of Study

For Students of the Third Scientific Class of 1878-79, who take the Four Years Course.

THIRD CLASS.

FIRST TERM.

Trigonometry, Descriptive Geometry, German, Mechanical Drawing.

SECOND TERM.

Surveying, Descriptive Geometry, German, Zoology.

THIRD TERM.

Navigation, German, Physics, Applications of Descriptive Geometry.

FOURTH TERM.

Analytical Geometry, German, Physics, Topographical Drawing.

SECOND AND FIRST CLASSES.

Regular Course.

Course of Study

For the Students of the Third Scientific Class of 1878-79, who take a Three Years Course.

SECOND CLASS.

FIRST TERM.

Trigonometry, Astronomy, Evidences of Religion.

SECOND TERM.

Surveying, Zoology, English Literature, Mechanical Drawing.

THIRD TERM.

Navigation, Physics, Mechanical and Topographical Drawing.

FOURTH TERM.

Analytical Geometry, Physics, Rhetoric.

FIRST CLASS.

FIRST AND SECOND TERMS.

Calculus, Mental Philosophy, Chemistry.

THIRD TERM.

Moral Philosophy, Logic, Mineralogy, Anatomy and Physiology.

FOURTH TERM.

Political Economy, Constitution of the United States, Geology.

FIRST CLASS OF 1878-79.

FIRST TERM.

Calculus, Astronomy, Chemistry, Butler's Analogy.

SECOND TERM.

Calculus, Chemistry. Zoology, International Law.

THIRD TERM.

Moral Philosophy, Mineralogy, two hours of Laboratory Practice.

FOURTH TERM.

Political Economy, Constitution of the United States, Geology.

ENGINEERING DEPARTMENT.

Faculty.

GEORGE WOODS, LL. D.,
Chancellor.

LIEUT. HENRY B. OSGOOD, THIRD ARTILLERY, U. S. ARMY,
Professor of Civil Engineering, and of Military Science.

ALPHONSE M. DANSE,
Teacher of French.

MILTON B. GOFF, A. M.,
Professor of Mathematics.

SAMUEL P. LANGLEY,
Professor of Astronomy and Physics.

PAUL F. ROHRBACHER,
Instructor in German.

P. B. DE SCHWEINITZ, M. E.,
Instructor in Mechanical Engineering, Physics and Astronomy.

FRANCIS C. PHILLIPS,
Professor of Chemistry, Mineralogy and Geology.

Course of Study.

CIVIL AND MECHANICAL ENGINEERING.

FOURTH CLASS.

Same as in the Scientific Department.

THIRD CLASS.

FIRST TERM.

Mathematics.—Trigonometry.
Descriptive Geometry.
German.—Woodbury's New Method.
Drawing.—Topographical.

SECOND TERM.

Mathematics.—Surveying.
Descriptive Geometry.
German.—Woodbury's Grammar and Whitney's Reader.
Drawing.—Topographical.

THIRD TERM.

Mathematics.—Navigation and Analytical Geometry.
German.—Continued.
Natural Science.—Physics.
Drawing.—Application of Descriptive Geometry.

FOURTH TERM.

Mathematics.—Analytical Geometry.
German.—Continued.
Natural Science.—Physics.

SECOND CLASS.

FIRST TERM.

Mathematics.—Differential and Integral Calculus.
German.—Whitney's Grammar; Schiller.
Natural Science.—Chemistry.

SECOND TERM.

Engineering.—Applied Mechanics.
Mathematics.—Calculus.
German.—Whitney's Grammar; Lessing.
Natural Science.—Chemistry.

THIRD TERM.

Engineering.—Applied Mechanics.
German.—Whitney's Grammar; Goethe.
Natural Science.—Mineralogy.
Laboratory Practice.

FOURTH TERM.

Engineering.—Applied Mechanics.
German.—Whitney's Grammar; Evans' History of German Literature.
Natural Science.—Geology.
Laboratory Practice.

CIVIL ENGINEERING.

FIRST CLASS.

FIRST TERM.

Engineering.—Applied Mechanics.
Civil Engineering.
Natural Science.—Astronomy.
Laboratory Practice.

SECOND TERM.

Engineering.—Civil Engineering.
Construction of Roof and Bridge Trusses.
Philosophy.—International Law.
English Literature.

THIRD TERM.

Engineering.—Civil Engineering.
Laws of Engineering Contracts and Specifications.
Natural Science.—Anatomy and Physiology.
Military Science.

FOURTH TERM.

Engineering.—Construction of Railroads.
Natural Science.—Botany.
Philosophy.—Political Economy.
Constitution of the United States.

MECHANICAL ENGINEERING.

FIRST CLASS.

FIRST TERM.

Engineering.—Applied Mechanics.
Mechanical Engineering.
Natural Science.—Astronomy.
Laboratory Practice.

SECOND TERM.

Engineering.—Mechanical Engineering.
Construction of parts of Machinery, etc.
Philosophy.—International Law.
English Literature.

THIRD TERM.

Engineering.—Mechanical Engineering.
Laws of Engineering Contracts and Specifications.
Natural Science.—Anatomy and Physiology.
Military Science.

FOURTH TERM.

Engineering.—Construction of Motors.
Natural Science.—Botany.
Philosophy.—Political Economy.
Constitution of the United States.

PREPARATORY DEPARTMENT.

Faculty.

GEORGE WOODS, LL. D.,
Chancellor.

LEVI LUDDEN, A. M.,
Principal and Instructor in Latin.

I. N. FORNER,
Instructor in Commercial Branches.

CHARLES R. COFFIN, A. M.,
Instructor in Greek.

OSCAR M. TUCKER,
Instructor in English Branches.

The following Members of the Faculty also give Instruction in this Department:

JOSEPH F. GRIGGS, A. M.,
Professor of Greek.

MILTON B. GOFF, A. M.,
Professor of Mathematics.

REV. EDWARD P. CRANE, A. M.,
Professor of Rhetoric and Logic.

PAUL F. ROHRBACHER,
Instructor in German and in General History.

THEODORE M. BARBER, A. M.,
Professor of Latin.

P. B. DE SCHWEINITZ, M. E.,
Instructor in Physics.

FRANCIS C. PHILLIPS,
Professor of Chemistry.

LIEUT. HENRY B. OSGOOD, THIRD ARTILLERY, U. S. ARMY,
Professor of Military Science and Tactics.

Course of Study.

CLASSICAL.

THIRD CLASS.

FIRST AND SECOND TERMS.

Latin.—Allen and Greenough's New Method.
Arithmetic.—Goff's Complete, beginning at Fractions.
Geography.—Guyot's New Intermediate.

THIRD AND FOURTH TERMS.

Latin.—Method, finished.
Arithmetic.—Continued.
English.—Whitney's Essentials of Grammar.

SECOND CLASS.

FIRST TERM.

Latin.—Cæsar, Book I. Allen and Greenough's Grammar.
Arithmetic.—Finished.
English.—Swinton's Composition.

SECOND TERM.

Latin.—Cæsar, Books II. and III. Grammar.
Greek.—Goodwin's Grammar and Leighton's Lessons.
English.—Composition, finished.

THIRD TERM.

Latin.—Cicero, Poet Archias and Catiline, I., II. Grammar.
Greek.—Grammar and Lessons, continued.
History.—Seavey's Goodrich's United States.

FOURTH TERM.

Latin.—Cicero, Catiline, III., IV., and Manilian Law. Grammar.
Greek.—Grammar and Goodwin's Reader.
History.—United States, finished.

FIRST CLASS.

FIRST TERM.

Greek.—Grammar and Reader, continued.
Algebra.—Robinson's Elementary.
English.—Critical Study. (Tancock's Grammar and Reader).

SECOND TERM.

Latin.—Virgil, ÆEneid, 1200 lines. Scanning.
Greek.—Grammar and Reader, continued.
Algebra.—Elementary to Quadratics.

THIRD TERM.

Latin.—Virgil, ÆEneid, 1800 lines. Written Translations.
Greek.—Grammar and Reader, continued.
Arithmetic.—Reviewed. Goff's Arithmetical Problems.

FOURTH TERM.

Latin.—Virgil, ÆEneid (Six Books), finished and reviewed.
Greek.—Grammar and Reader, finished.
Algebra.—Robinson's University to Quadratics.

ENGLISH.

SECOND CLASS.

FIRST TERM.

Arithmetic.—Goff's Complete, beginning at Fractions.
Geography.—Guyot's New Intermediate.
English.—Reading, Spelling and Penmanship.

SECOND TERM.

Arithmetic.—Continued.
Geography.—Finished.
English.—Language Lessons.

THIRD TERM.

Arithmetic.—Continued.
History.—Seavey's Goodrich's United States.
English.—Whitney's Essentials of Grammar.

FOURTH TERM.

Arithmetic.—Continued.
History.—United States, finished.
English.—Grammar, finished.

FIRST CLASS.

FIRST TERM.

Algebra.—Robinson's Elementary.
Arithmetic.—Finished.
English.—Swinton's Composition.

SECOND TERM.

Algebra.—Elementary to Quadratics.
English.—Composition, finished.
Hudson's Classical English Reader. Spelling.

THIRD TERM.

Arithmetic.—Reviewed. Goff's Arithmetical Problems.
History.—Smith's Smaller History of Greece.
Geography.—Guyot's Physical.

FOURTH TERM.

Algebra.—Robinson's University to Quadratics.
History.—Smith's Smaller History of Rome.
Geography.—Reviewed.

General Statement.

TERMS OF ADMISSION.

It is required of candidates for admission to the Freshman class that they should not be less than fourteen years of age, and that they sustain a satisfactory examination in the following studies:

Greek.—Goodwin's Greek Reader (embracing selections from Xenophon, Plato, Herodotus and Thucydides and equivalent to seven books of the Anabasis); Greek Grammar (Goodwin's preferred).

Latin.—Six books of Virgil's Æneid; Three books of Cæsar; Six of Cicero's Orations; Latin Grammar (Allen and Greenough's preferred).

English.—Algebra to Quadratics; Arithmetic; Geography; English Grammar and Composition; United States History; Orthography.

Real equivalents will be accepted for the above requirements in Greek and Latin.

Candidates for the Scientific Department, or for the Engineering Department, are examined in the English branches named above.

DEGREES.

Students who complete satisfactorily the Academical course of four years will receive the degree of "Bachelor of Arts." Those who complete the regular Scientific course of four years will receive the degree of "Bachelor of Philosophy." The completion of either of the courses in Engineering, of four years each, entitles the student to the degree of "Civil Engineer," or "Mechanical Engineer," respectively. Students in the Laboratory, and special students who pursue one or more branches exclusively, will, at their request, receive certificates as to the amount of work done and the proficiency displayed.

EXAMINATIONS AND RANK.

At the close of each term there are examinations of all the classes, occupying two days. In the Collegiate Department they are wholly in writing and are conducted by committees appointed by the Faculty, no instructor examining his own classes. Each student's rank, as determined by a combination of the examination and recitation marks, is recorded and may be obtained on application to the Registrar of the Faculty.

RELIGIOUS EXERCISES.

The daily session is opened with a brief chapel exercise, at which all the students are required to be present. The institution is Christian, but not sectarian; the Faculty includes members of various denominations.

RHETORICAL EXERCISES.

All the students are required to prepare, on alternate weeks, essays and declamations. Some of the latter are delivered in the chapel before the Faculty and students. Two original orations per term are required of each member of the Junior and Senior classes, and of the First and Second Scientific classes.

MILITARY DRILL.

There is a drill exercise conducted by an officer of the regular army, each day, in a hall exclusively for this purpose. The students are divided into two companies which drill on alternate days, half an hour at a time, in the middle of the daily session.

ANCIENT LANGUAGES.

The course of study in the Classics is extensive and varied. The method of instruction aims to furnish not only a thorough and critical

knowledge of the structure of the language but also an acquaintance with the best specimens of ancient literature, without giving undue prominence to either object. Written translations into English and exercises in Latin and Greek composition are continued throughout the course. Mythology, Antiquities and Ancient Geography, are introduced as the nature of the reading requires and are also made subjects of special study in certain terms. The arrangement of these subsidiary exercises will be found detailed in the course of study.

MODERN LANGUAGES.

German and French are taught by native instructors. In the study of these languages the foremost place is given to translations from standard authors, accompanied by a critical study of the structure and idioms. In recognition, however, of the extensive use of the German language in this vicinity, attention is given, so far as is consistent with the main object in view, to imparting the ability to speak and write it accurately. Oral and written exercises are continued throughout the course, and there is an exercise in free dictation every Friday.

In the Academical Department an acquaintance with one of these languages is requisite for graduation. In the recently enlarged Scientific course, French is made a daily study during the first year and German during the second and third. It seemed especially desirable that in the Scientific Department the study of German and French should be extended and thorough, not only for its obvious value in enabling the student to read the best Scientific works, but also because it is to these languages that recourse must be had for some degree of that intellectual drill from linguistic study, which in the Academical Department is furnished by the classics.

COMMERCIAL BRANCHES.

Students are instructed in Penmanship, in Single and Double Entry Book-keeping, and in the Science of Accounts; also, in the principles of Receipts, Notes, Drafts, Foreign Bills of Exchange, Business Forms, Indorsements, Maturity of Mercantile Paper, Business Correspondence and the Laws of Commerce.

DRAWING.

Free-hand Drawing is taught gratuitously, by an accomplished instructor, to those who desire it. Students not wishing to take a full course in Engineering can receive instruction in Mechanical Drawing separately, to any desired extent.

OPTIONAL STUDIES.

In the Academical classes, Latin and Greek are optional after the Freshman year, and Mathematics after the Sophomore year. Any one of these branches may be entirely omitted or pursued beyond the regular course. In case of the omission of any of these studies, an equivalent must be taken in the English Language and Literature, Metaphysics, Natural Science, Engineering or Modern Languages.

THE OBSERVATORY.

The Observatory is favorably situated on a hill in Allegheny City. The fine Equatorial has an object glass thirteen inches in diameter and is provided for solar research with a polarizing eye-piece of original design. The equipment includes a Sidereal Chronometer, a Mean-Time Clock, a large Transit, a Spectroscope, an Induction Coil, a Standard Barometer, and other instruments, representing the latest and best work of the leading European and American makers. By telegraphic connections the Observatory furnishes standard time to the two cities and to the important railways leading to Philadelphia and Chicago.

CABINET AND APPARATUS.

The cabinet contains over ten thousand choice specimens in Geology, Conchology, Mineralogy and Zoology, properly labeled, classified and arranged in cases; it includes a complete set of Ward's casts of fossil animals; also many curiosities collected in India and elsewhere.

The Philosophical and Chemical Apparatus is freely used in connection with the instruction in the natural sciences. Surveying is illustrated by field exercises with the necessary instruments.

The Engineering Department is furnished with a large collection of models, especially serviceable to students in drawing.

THE WATSON LIBRARY.

By bequest of Robert Watson, Esq., the University has received a valuable library of over two thousand five hundred volumes, comprising standard authors in the Greek, Latin, French and German languages, leading works in History, Science and Mathematics, several Cyclopædias and other books of reference, and a good selection of works in General Literature. The library has been placed in a room specially furnished for the purpose and is open for reference, during the hours of the session, each day. In connection with the library, the Trustees have established a reading-room, containing a large number of the best reviews, magazines and weekly periodicals.

CHEMICAL LABORATORY.

Ample provision has been made for a thorough course of Chemical Analysis under the immediate supervision of the Professor. The students have separate desks, supplied with gas and water, and are furnished with all necessary apparatus and materials. Instruction is also given to those wishing to devote special attention to Analysis of Ores, Fuels, Furnace Products, Cast Iron and Steel, Soils and Fertilizers, and to other applications of Chemistry. There are no classes, each student working independently of the others.

LECTURES.

Courses of lectures fully illustrated are given in connection with the instruction in Astronomy, Natural Philosophy, Chemistry, Botany, Physiology, Mineralogy and Geology. Lectures of half an hour in

length, on topics of general interest, are given on Wednesday mornings, before the whole body of the students, by members of the Faculty and others.

LITERARY SOCIETIES.

There are two literary societies conducted by the students, the Irving and the Philomathean. They hold meetings for debate and general literary culture every Friday afternoon. Their rooms are pleasant and commodious, and have been lately refurnished. Each society has a small library.

PREPARATORY DEPARTMENT.

The Preparatory Department is designed to furnish a thorough preparation for the several courses of the Collegiate Department, or to provide the elements of a practical education for those unable to pursue an extended course of study. In addition to thoroughness of instruction, a careful supervision of the general welfare of the students is exercised. The facilities of this department have recently been much enlarged by the erection of a separate building, containing ample and commodious recitation rooms.

Applicants for admission to the Classical course must not be less than eleven years of age and those for the English course not less than twelve. For either course, they must be able to write legibly and to read writing readily, and must sustain a satisfactory examination in the following books, or their equivalents: Guyot's Primary Geography; Osgood's Fourth Reader; Goff's Complete Arithmetic through Decimals. For those unprepared to enter the regular courses, provision is made for a year of preliminary study in Reading, Spelling, Geography and Arithmetic. For special students not intending to enter the Collegiate Department, arrangements are provided by which they may take additional branches, such as Physics, Chemistry, Natural History, Physiology and Book-keeping. The assignment of these preliminary and additional studies, as to teachers, terms and hours, can be learned from the schedule.

LUNCH ROOM.

In the recent enlargement of the University Building provision was made for furnishing dinners and lunches. This department is under the control of the Trustees and is designed to supply good food at economical rates and at timely hours.

SESSIONS.

The University year is divided into four Terms, of ten weeks each. There are three vacations, one including the months of July and August, one in April, and one during the Christmas Holidays.

TUITION, PER TERM.

Preparatory,	$18.00
Preparatory, with German,	25.00
Preparatory, with Mechanical Drawing,	25.00
Collegiate,	25.00
Collegiate, with special instruction in Analytical Chemistry,	40.00
French (extra),	3.00
Book-keeping and Penmanship, alone,	15.00
Special students in Analytical Chemistry,	25.00

Students in Chemistry (except Analytical) are charged $1 per term extra.

Students in Analytical Chemistry, in addition to the regular fee, are charged for breakage and for the more expensive re-agents.

By a rule of the Trustees, Tuition is to be paid in advance. Bills are made out from the beginning of the calendar term. All who enter are charged for at least one term. Allowance is made for absence only in cases of protracted sickness.

CALENDAR.

1878.

June 24. Annual Examination begins, ... Monday
June 26. Baccalaureate Address, ... Wednesday
June 26. Class Day, ... Wednesday
June 27. Alumni Meeting, ... Thursday
June 27. Commencement, ... Thursday
June 28. Examination for Admission, ... Friday

SUMMER VACATION.

Aug. 31. Examination for Admission, ... Saturday
Sept. 2. First Term opens, ... Monday
Nov. 8. First Term closes, ... Friday
Nov. 11. Second Term opens, ... Monday
Dec. 20. Exhibition of Preparatory Department, ... Friday
Dec. 23. Vacation begins, ... Monday

VACATION OF TWO WEEKS.

1879.

Jan. 24. Junior Exhibition, ... Friday
Jan. 31. Second Term closes, ... Friday
Feb. 3. Third Term opens, ... Monday
April 11. Third Term closes, ... Friday

VACATION OF ONE WEEK.

April 21. Fourth Term opens, ... Monday
June 26. Commencement, ... Thursday

SCHEDULE FOR COLLEGIATE DEPARTMENT.

1878. FIRST TERM—September 2d to November 8th.

I. 9.15—10.15.	II. 10.15—11.15.	III. 11.15—12.15.	IV. 1.15—2.15.	TEACHERS.
	Men. Phil. Jr.			Woods.
Homer, Fr.	Eurip. Sph.			Griggs.
French, 4.				Danse.
	Algebr. Fr. 4.	Trig. Sph. 2 S. 3.	Calc. Jr. 2 E. 1 Sci.	Goff.
	Analogy, Se. 1 Sci.	Hist. Fr. 4.		Crane.
German, 3.	German, 2 E.			Rohrbacher.
Hor. Sph.		Tac. Jr.		Barber.
Astr. Se. 1 Sci.	Appl. Mech. 1 E.	Mech. Eng. 1 M. E.	M. Dr. 3 Sci. 4.	de Schweinitz.
		Chem. Se. 2 E. 1 Sci.	Labor. 1 E.	Phillips.
	Descr. Geom. 2 S. 3.	Civ. Eng. 1 C. E.	Top. Dr. 3 E.	Osgood.

1878-79. SECOND TERM—November 11th to January 31st.

	Ment. Phil. Jr.			Woods.
Soph. Jr.	Dem. Sph.			Griggs.
French, 4.				Danse.
	Algeb. Fr. 4.	Surv. Sph. 2 Sci. 3.	Calc. 2 E. 1 Sci.	Goff.
Int. Law, Se. 1.		Eng. Lit. Jr. 1 E.	Hist. Fr. 4.	Crane.
German, 3.	German, 2 E.			Rohrbacher.
Hor. Sph.		Livy, Fr.		Barber.
Appl. Mech. 1 E.	Mech. Eng. 1 M. E.	Mech. Dr. 4.	Constr. 1 M. E.	de Schweinitz.
	Zool. Se. 3 S. 2 S. 1 S.	Chem. Se. 2 E. 1 Sci.	Labor. Se.	Phillips.
	Civ. Eng. 1 C. E.		Constr. 1 C. E. }	Osgood.
	Top. Dr. 3 E.		Descr. Geom. 3. }	

1879. THIRD TERM—February 3d to April 11th.

	Mor. Phil. Se. 1 Sci.			Woods.
Homer, Fr.	Aesch. Sph.			Griggs.
French, 4.				Danse.
	Geom. Fr. 4.	Nav. Sph. 2 Sci. 3.		Goff.
		Logic, Jr.	Hist. 4.	Crane.
German, 3.	German, 2 E.			Rohrbacher.
Hor. Sph.	Juven. Jr.			Barber.
Mech. Eng. 1 M.E	Mech. Dr. 2 Sci.	Appl. Mech. 2 E.	Phys. Jr. 2 S. 3. }	de Schweinitz.
		Mech. Dr. 4.	}	
Min. Se. 1 Sci. 2 E.		Anat. 1 E.	Labor. 1 Sci. 2 E.	Phillips.
Civ. Eng. 1 C. E.	L. of Contr. 1 E.		Mil. Sci. 1 E. Sph. }	Osgood.
Top. Dr. 2 Sci.	Ap. Des. Geo. 3.		}	

1879. FOURTH TERM—April 21st to June 26th.

	Pol. Econ. Se. 1.			Woods.
Plato, Jr.			Herod. Fr.	Griggs.
French, 1.				Danse.
	An. Geo. Sph. 2 S. 3.	Geom. Fr. 4.		Goff.
		Rhet. Jr. 2 Sci.	Hist. 4.	Crane.
German, 3.	German, 2 E.			Rohrbacher.
Ter. Sph.	Livy, Fr.			Barber.
Constr. 1 M. E.		Appl. Mech. 2 E.	Phys. Jr. 2 S. 3.	de Schweinitz.
Geol. Se. 1 Sci. 2 E.		Bot. Se. Sph. 1 E.	Labor 2 E.	Phillips.
Constr. 1 C. E.	Top. Dr. 4.	Top. Dr. 3 Sci.	U. S. Const. Se. 1.	Osgood.

SCHEDULE FOR PREPARATORY DEPARTMENT.

1878. FIRST TERM—September 2d to November 8th.

I. 9.15—10.15.	II. 10.15—11.15.	III. 11.15—12.15.	IV. 1.15—2.15.	V. 2.15—3.	TEACHERS.
		Geography.	Latin, 3 C.		Ludden.
Arithmetic.	Book-Keeping.	Penmanship.	Spelling.	Penmanship.	Forner.
	Greek, 1 C.	Arith. 1 E. 2 C.	Cæsar, 2 C.	Reading.	Coffin.
Arith. 2 E. 3 C.	Eng.Com.1E.2C.	Read. & Spell. 2 E.	Physiology.	Geog. 2 E. 3 C.	Tucker.
El.Alg. 1 E. 1 C.					Goff.
		German.			Rohrbacher.
			Crit. Eng. 1 C.		Barber.
El. Chem.					Phillips.

1878-79. SECOND TERM—November 11th to January 31st.

		Geography.	Latin, 3 C.		Ludden.
Arithmetic.	Book-Keeping.	Penmanship.	Spelling.	Penmanship.	Forner.
Arith. 2 E. 3 C.	Greek, 2 C.		Cæsar 2 C.	Reading.	Coffin.
	Lang. Less. 2 E.	Eng.Comp.1E.2C.	Physiology.	Geog. 2 E. 3 C.	Tucker.
		Greek, 1 C.			Griggs.
El. Alg. 1E. 1 C.					Goff.
	Read.&Spell.1E.				Crane.
		German.			Rohrbacher.
			Virgil, 1 C.		Barber.

1879. THIRD TERM—February 3d to April 11th.

	Phys. Geog. 1 E.		Latin, 3 C.		Ludden.
Arithmetic.	Book-Keeping.	Penmanship.	Penmanship.	Spelling.	Forner.
Arith. 2 E. 3 C.	Greek, 2 C.	Geography.	Cicero, 2 C.		Coffin.
	Nat. Hist.	Gram. 2 E. 3 C.	Reading.	U.S.Hist. 2 E. 2 C.	Tucker.
		Greek, 1 C.			Griggs.
Arith. 1 E. 1 C.					Goff.
		German.	Anc. Hist. 1 E.		Rohrbacher.
			Virgil. 1 C.		Barber.

1879. FOURTH TERM—April 21st to June 26th.

	Geog. 1 E.		Latin, 3 C.		Ludden.
Arithmetic.	Book-Keeping.	Penmanship.	Penmanship.	Spelling.	Forner.
Arith. 2 E. 3 C.	Greek, 2 C.	Geography.	Cicero, 2 C.		Coffin.
	Nat. Hist.	Gram. 2 E. 3 C.	Reading.	U.S.Hist. 2 E. 2 C.	Tucker.
		Greek, 1 C.			Griggs.
Univ.Al.1E.1C.					Goff.
		German.	Anc. Hist. 1 E.		Rohrbacher.
			Virgil, 1 C.		Barber.
	El. Physics.				de Schweinitz.

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